STA	RT			0012086
		SE CONTROL FORM		Date
M-10-90-2	Do not use blue	nk. Type, or print using black ink.		11/20/90
Originator L. M.	Sasaki		Phone 373-]	1027
Class of Change	gnatories (Section 13.0)	∑ II – Project Manager	☐ III – Unit M	lanager
Change Title				. , , , , , , , , , , , , , , , , , , ,
Single-Shell T	ank Core Sampling Miles	tone Delay Due to Saf	ety Issue	
Description/Justification	n of Change			
	change is requested to eement) milestone:	the Federal Facility	Agreement and	Consent Order
M-10-04 Obtai	<u>Milestone</u> n four samples from two e-Shell Tanks (SSTs)	Current Date: Dec. 31, 1990	Revised Date May 24, 1991	<u>::</u>
sampling opera testing of the been suspended	has been impacted by a tions. As a result of core drill bit on syntuntil it can be demonsolued on page 2.)	high drill bit temper hetic hardcake, all c	ratures reache core sampling	d during operations have
Impact of Change				
the above Tri- conducted to a soft wastes in ferrocyanides, sampling of th 1991. The sub rotating drill mode, however, September 30, (M-10-05) on s	ach for the readiness reparty Agreement milestons sure the safety and adtanks that are not on or acetates. Completice next two SSTs to begin sequent phase(s) of the bit. Sufficient tanks to allow for the sample 1991 Tri-Party Agreement chedule. (Continued on party agreement)	ne. An initial reading adjuction of using only the watch lists for hon of this readiness of by March 28, 1991, readiness review will are expected to be a ing of additional SST to milestone to obtain	ness review w the push mode ydrogen gener review will a and be comple l address sam vailable for s toward meet	ill be to core sample ation, llow the ted by May 24, pling with a use of the push ing the
"Single-Shell	l Facility Agreement and Tank Waste Characteriza tive Action Work Plan (1	tion;" Single-Shell T	ank System	·
Approvals DOE	ApprovedDisa	approved	A LEGINARY AND THE PARTY OF THE	BOOK STATES OF S
Ecology	Date		82991	1534

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Description/Justification of Change (continued):

While the SSTs selected to be sampled to meet M-10-04 (tanks B-201, B-202 and/or T-203) are expected to be soft wastes that can be sampled without rotation of the drill bit and should not exhibit the high temperatures observed during the hardcake tests, the WHC Waste Management Division, in consultation with DOE-RL has determined that additional testing and analysis of the core drilling equipment in a push mode (no rotation) is required prior to performing additional core sampling. As a result, an instrumented test in simulated waste measuring drill bit temperature and an analysis of the push mode safety envelope will be performed. Following this effort, a comprehensive readiness review to provide assurance that the safety envelope will not be violated in actual operation will be performed. When the readiness review is completed, the tank sampling can proceed.

Core sampling tests that involve operating the equipment in a push mode (no rotation) will be performed to verify and document a push mode safety envelope. The drill bit temperature will also be monitored during actual sampling operations.

Impact of Change (continued):

Preliminary calculations of the effect of push mode sampling indicate that any increase in temperature will be minimal. These calculations are expected to be confirmed through drill bit temperature testing in the push mode. However, if these calculations are not confirmed or if the three tanks identified for characterization do not fall within the safety envelope, then the revised milestone date as well as subsequent core sampling milestones may be impacted.

A schedule showing activities supporting the revised milestone date is attached.

Change Number M-10-90-2 Page 3 of 3

READINESS REVIEW FOR SST SAMPLING							
	· 1990	1Jan 1Feb	1991 1Mar 1A	pr 1May			
1 000 011100 011 111111 01100 01	26Nov	3Jan			İ		
9011 SAFETY ENVELOPE DOCUMENT 2	6Nov 24Jan						
9012 INSTALL TEMPERATURE MONITORING 2	26Nov 28Dec						
9013 REVISE PROCEDURE 2	26Nov	25Jan			ļ		
9014 GROUP TANKS 2	26Nov □ 6De	;					
9015 FIELD INSPECTION	7Dec 🖂 131	ec ec					
9016 SAMPLE VAPOR SPACE	7Dec 🗀 :	Dec			i		
9017 PREPARE WORK REQUEST	10.	an 🗀 28Jan					
9018 READINESS REVIEW	7Dec 🗀		20Mar				
9100 MOVE CST INTO TANK FARM & SAMPLE TWO TANKS		211	/lar	24May			
91002 INITIATE SST SAMPLING		2	8Mar I 28M	ar .			
91007 COMPLETE TPA M-10-04 (4 CORE SAMPLES/2 SST)				♦ 24May			
911 SAMPLE 3RD TANK		}		28May 24	4Jun		
			· · · · · · · · · · · · · · · · · · ·	•			
e e	Project: CHAR	· CH	ARSUM	Date: 28Nov90 9:23			
Legend	SST DOCUMENTATION FOR SAMPLING .			SAMPLING .			
Early CPM	Page: 1	E. N. THOMPSON 6-7003					